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US Attorney Docket No. 55525-8038.US00

Applicant: Brenner  
Serial No.: 09/786,254  
Filing Date: April 30, 2001  
For: METHOD OF SCREENING FOR GENETIC  
POLYMORPHISM

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

1. Transmitted herewith are the following:
  - ☒ An Amendment
  - ☒ A Petition for 1-month extension of time
  - ☒ A Request for Change of Correspondence Address
  - ☒ A check in the amount of \$110 covering the time extension fee due.
2. Entity Status
  - ☒ Large Entity is proper for this case.
3. Conditional Petition for Extension of Time:  
An Extension of Time is requested to provide for timely filing if necessary for timely filing of this transmittal and enclosures.
4. Provisional Fee Authorization  
Please charge any underpayment, or credit any overpayment, in fees for timely filing of this transmittal and enclosures to Deposit Account No. 50-2207.

Respectfully submitted,

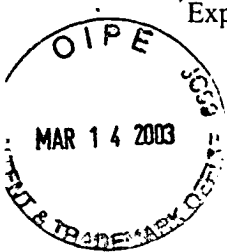
LeeAnn Gorthey  
Registration No. 37,337

Date: Mar 14, 2003

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

*Sydney Brenner*

SERIAL NO.: 09/786,254

FILED: April 30, 2001

FOR: **METHOD OF SCREENING FOR  
GENETIC POLYMORPHISM**

EXAMINER: Myers, C.

ART UNIT: 1634

CONFIRMATION NO. 7017

Amendment

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In response to the Office action mailed December 14, 2002 in the above-identified application, please amend the application as indicated below. Enclosed herewith are a Petition for a one-month extension of time and a check for the fee of \$110.

In the Claims:

Please replace claims 1, 3 and 5 with the rewritten claims below, and cancel claims 2 and 4. Also enclosed, starting on a separate page following this response, is a marked copy of the presently amended claims showing all changes relative to the previous version.

1. (Amended) A method of identifying polymorphic DNA sequences in a test DNA population, the method comprising the steps of:

(a) providing a reference DNA population;

(b) forming a population of heteroduplexes from single stranded DNA of the reference DNA population and single stranded DNA of the test DNA population, said heteroduplexes having at one terminus a region in which both strands are in single stranded form;

(c) treating said heteroduplexes with an exonuclease whose substrate is duplex DNA, such that said exonuclease converts substantially every perfectly matched duplex to single stranded DNA and substantially every mismatched duplex to partially double stranded DNA;